

# Questionnaire

We wish our project can actually be helping people and especially the ones who have desperate need for better energy, for example the ones in countryside. In china, the life and education are totally different between cities and countryside. In order to give them better help, we first need to know more about them. So we did an interview on several questions especially for the villagers. We went door to door to give the questionnaires to a different villages and received back 300 of them. Here are the details.



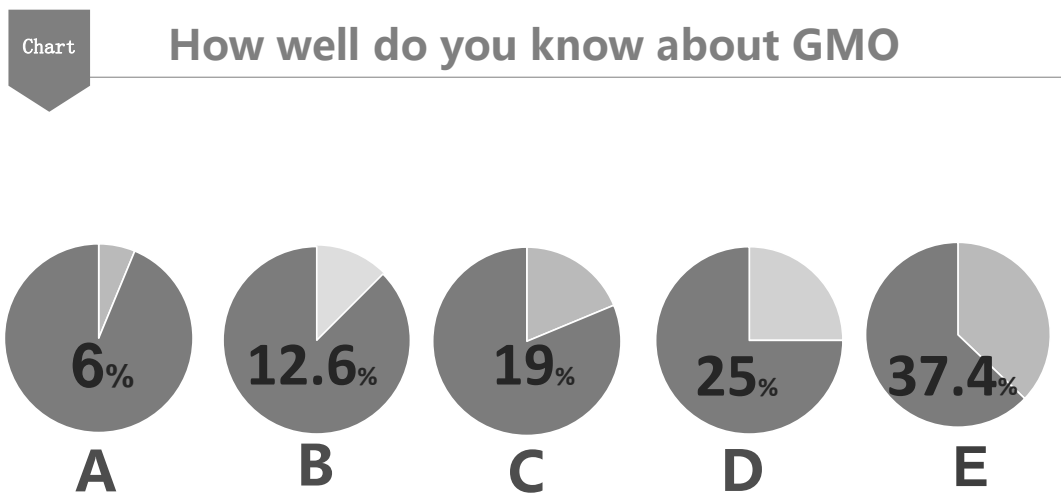
(The six villages we visited)







Question1: How well do you know about GMO?



### Options:

- A: I knew about GMO and I have used it in agriculture
- B: I knew about GMO and I ingested the relating product
- C: I knew about GMO but I never ingest any of it
- D: I don't know anything about GMO
- E: I don't really know about GMO but I don't mind eating it

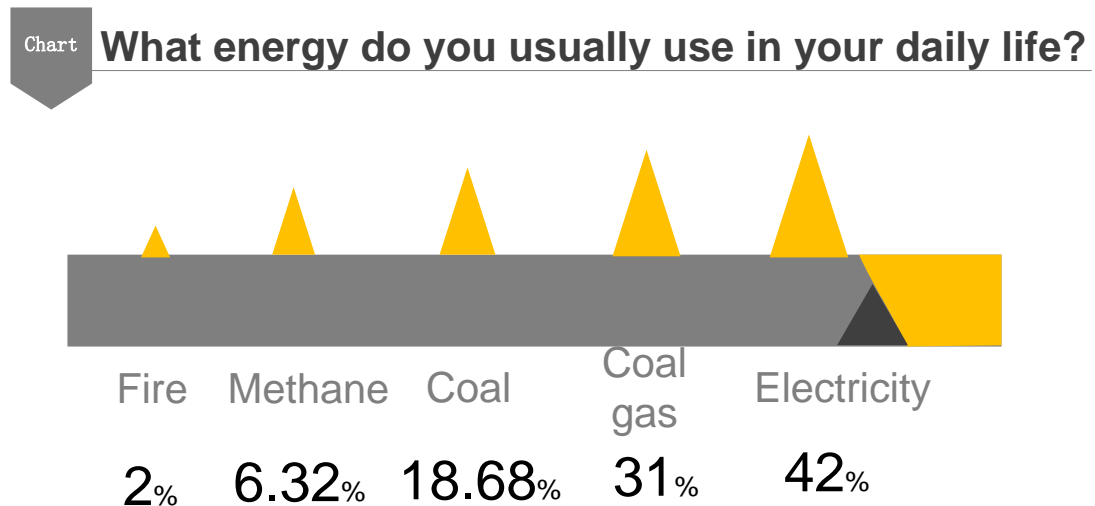
### Data display:

- A:  $8/300=6\%$
- B:  $38/300=12.6\%$
- C:  $57/300=19\%$
- D:  $75/300=25\%$
- E:  $112/300=37.4\%$

### Conclusion:

Most of the people in the village doesn't really know what GMO is. This kind of science knowledge is what they are lack of in the countryside.

Question2: What energy do you usually use in your daily life?



Data display:

Fire:  $\frac{2}{300} = 2.0\%$

Methane:  $\frac{19}{300} = 6.32\%$

Coal:  $\frac{6}{300} = 18.68\%$

Coal gas:  $\frac{3}{300} = 31\%$

Electricity:  $\frac{26}{300} = 42\%$

Conclusion:

The electricity is not sufficient in these village.

There are still a lot of people using other forms of energy such as fire and methane gas.

Question3: What defects do you think your current energy have?

Data display:

Global warming:  $17/300=39\%$

Pollution:  $00/300=33.33\%$

Intoxication:  $0/300=16.66\%$

Bad for household electrical appliance:  $17/300=5.50\%$

Expensive:  $6/300=5.51\%$

Conclusion:

The villagers think the smoke that produced by fire or coal is bad for their health. And the coal gas can led to intoxication. And some of the energy like methane is really inconvenient using in individual house.

Question4: How much does the energy fee takes up your whole expenses.

Data display:

10%-30%:  $263/300=87.6\%$

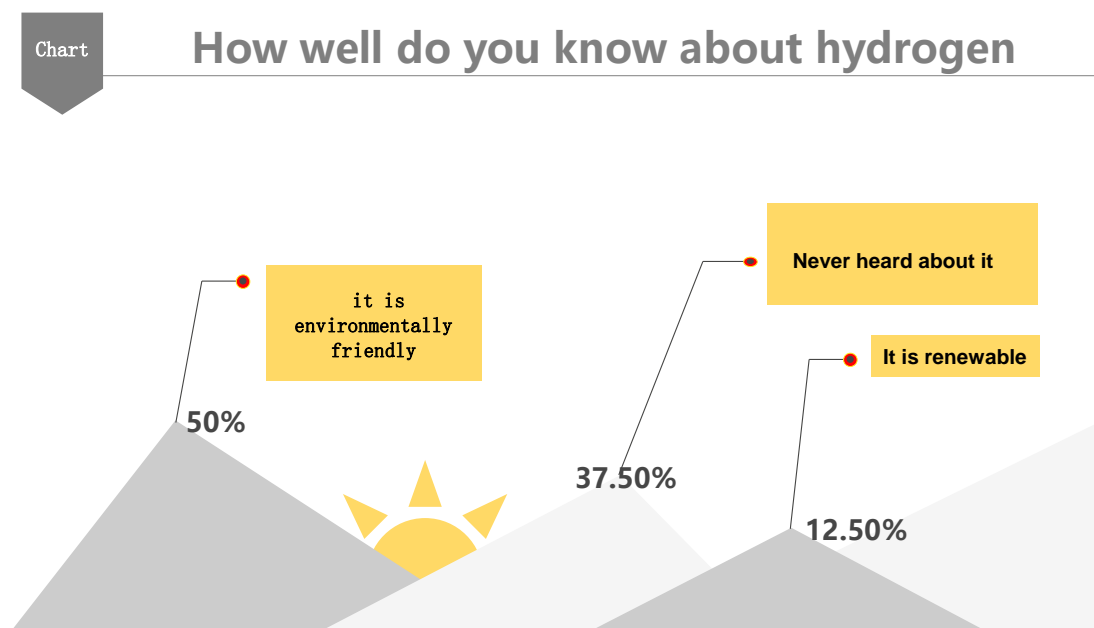
30%-70%:  $37/300=12.4\%$

70%-100%:  $0\%$

Conclusion:

Some of the family still paid large percent of the whole expenses on energy. For them, energy using is still a big problem and it is too expensive.

Question5: How well do you know about hydrogen.



Data display:

It is environmentally friendly:  $150/300=50\%$

It is renewable:  $38/300:12.50\%$

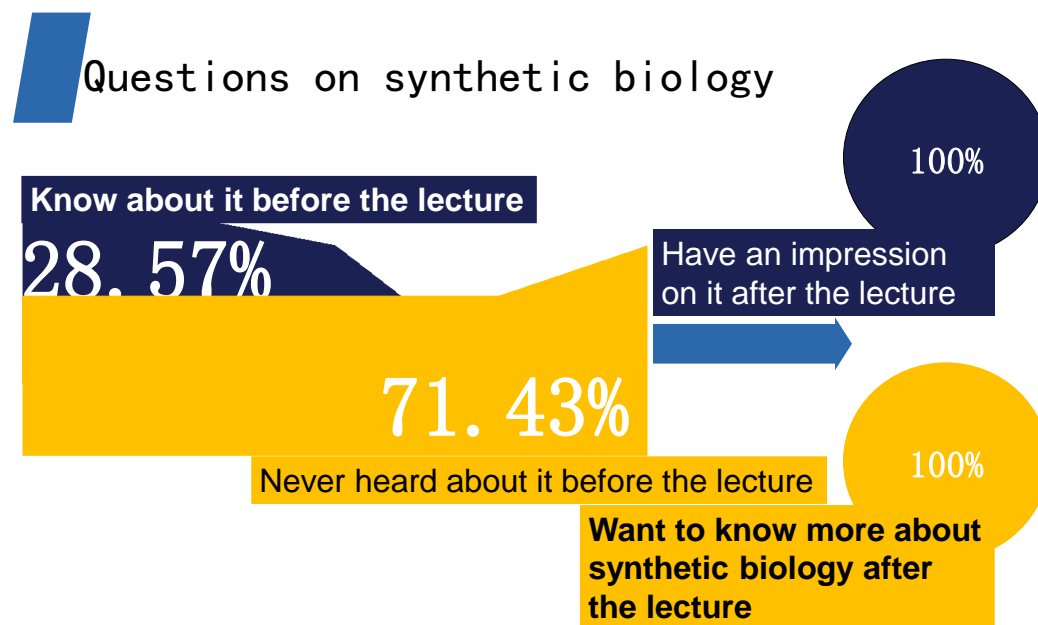
Never heard about it:  $112/300: 37.50\%$

Conclusion: There are more than a half of people have a vague impression

on hydrogen. But still some of them don't know. If we want to use our project into every houses we indeed have to do some lecture to tell the hydrogen related knowledge.

**We also did a lecture on synthetic biology for them in the village, so we want to see how well the affect is.**

Question6, 7&8: questions on synthetic biology



Conclusion:

Most of the villagers don't know anything about synthetic biology before our lecture. But after our lecture, 100% percent of them said they have a first impression on synthetic biology, and 100% percent of them want to learn more about it.



Question9: Do you think that synthetic biology is a useful knowledge and you want your children to learn more about it?

100% of the parents want their children to learn more about synthetic biology and other science knowledge after our lecture. In order to make the knowledge more interesting we even draw some teaching aid to bring there with us. This is how we encourage the children to not stop gaining education too early. We hope our lecture grow a seed in their heart and make them eager to learn more.





Question 10: This is an interview question on how the villagers think about our project.

Conclusion:

Almost all of them want new source of energy. The kind of more convenient type. For it is so hard for the old people to make a fire. And a lot of them were worried about poisonous gases in the house will hurt the children. So all of them wish our project can be used in reality as soon as possible to improve their life.